

FIG. 1A

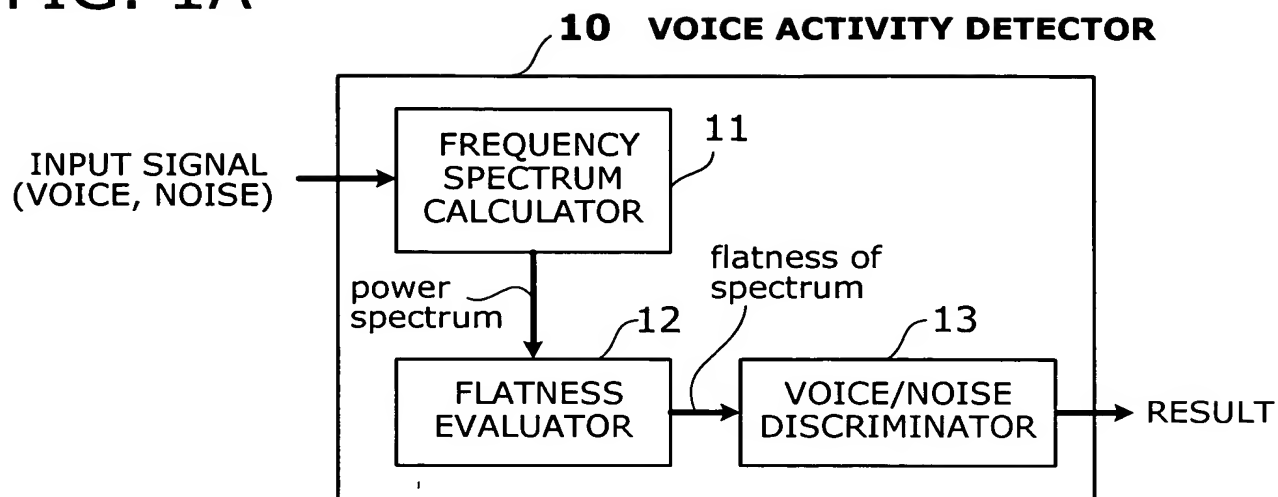
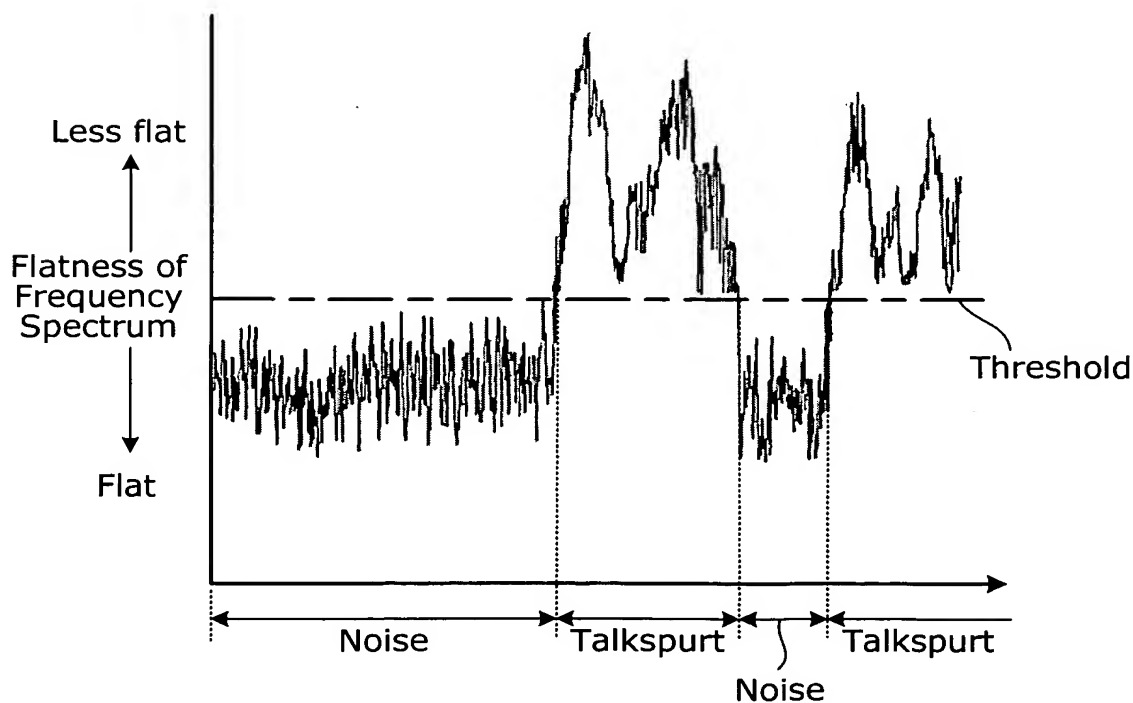


FIG. 1B



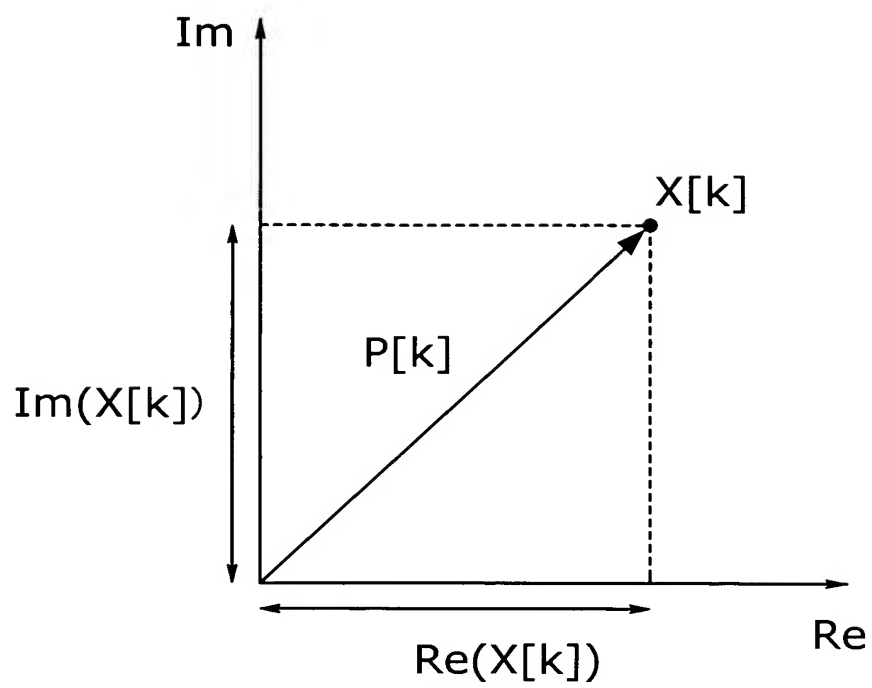


FIG. 2

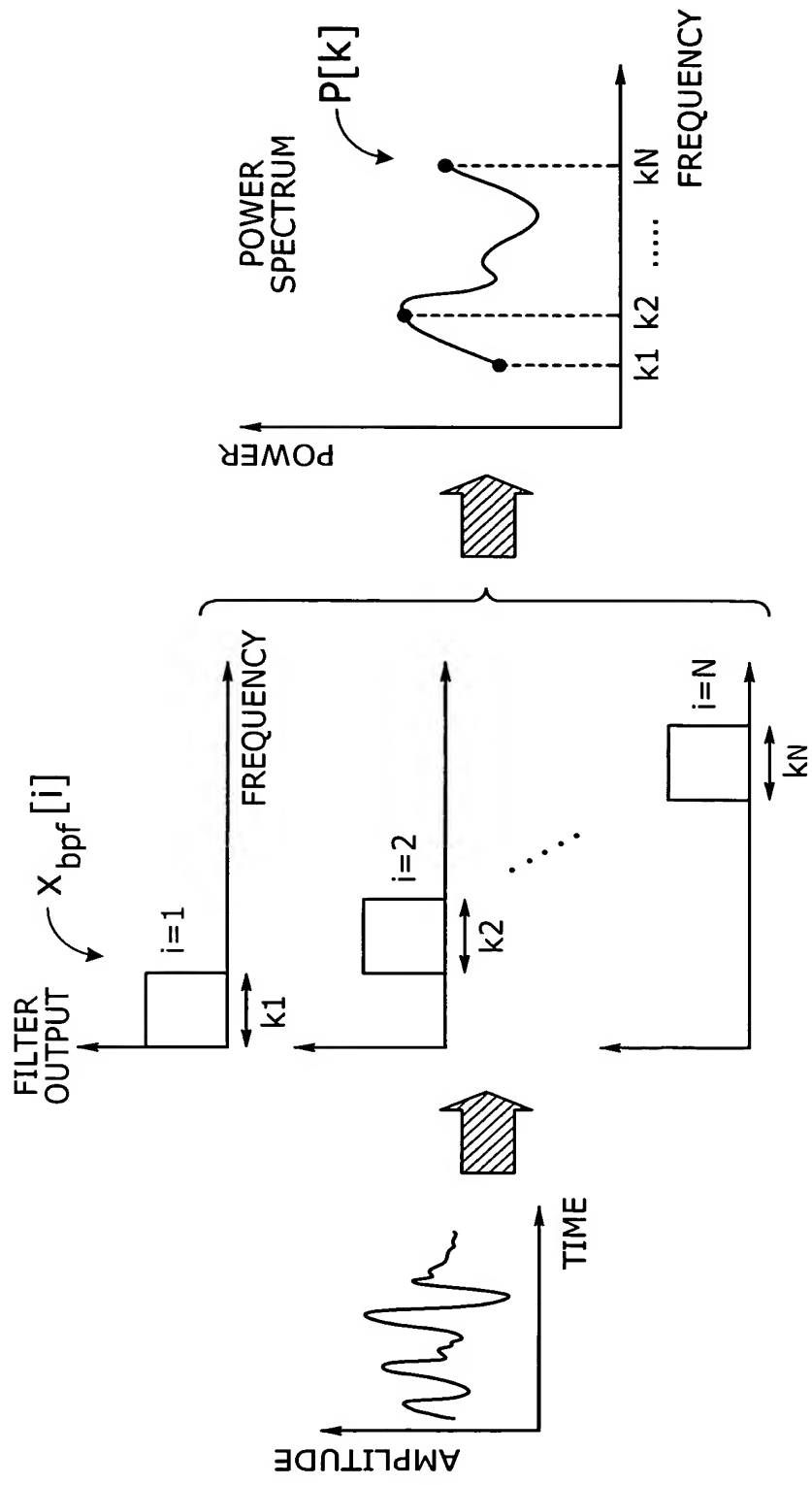


FIG. 3

FIG. 4A

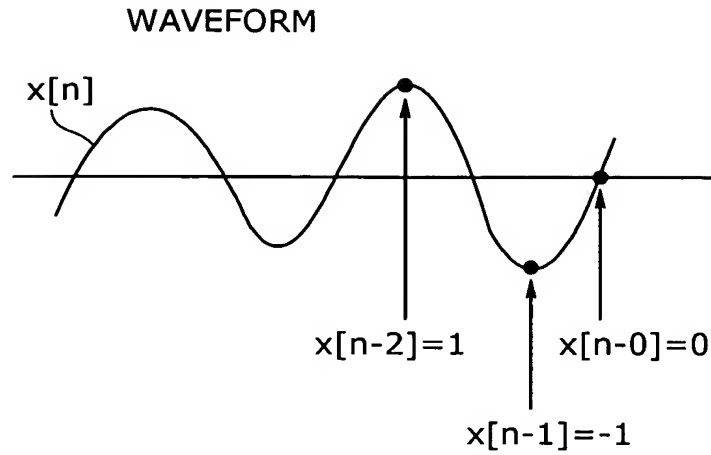


FIG. 4B

FILTER
COEFFICIENTS

$$\left\{ \begin{array}{l} \text{bpf}[i][0] = 1 \\ \text{bpf}[i][1] = 1 \\ \text{bpf}[i][2] = 0 \\ \vdots \\ \text{bpf}[i][j] = \dots \end{array} \right.$$

FIG. 4C

$$\begin{aligned}
 x_{\text{bpf}}[i][n] &= \sum_j \text{bpf}[i][j] * x[n-j] \\
 &= \text{bpf}[i][0] * x[n-0] \\
 &\quad + \text{bpf}[i][1] * x[n-1] \\
 &\quad + \text{bpf}[i][2] * x[n-2] \\
 &\quad \vdots \\
 &\quad + \text{bpf}[i][j] * x[n-j] \\
 &= (1*0) + (1*(-1)) + (0*1) + \dots
 \end{aligned}$$

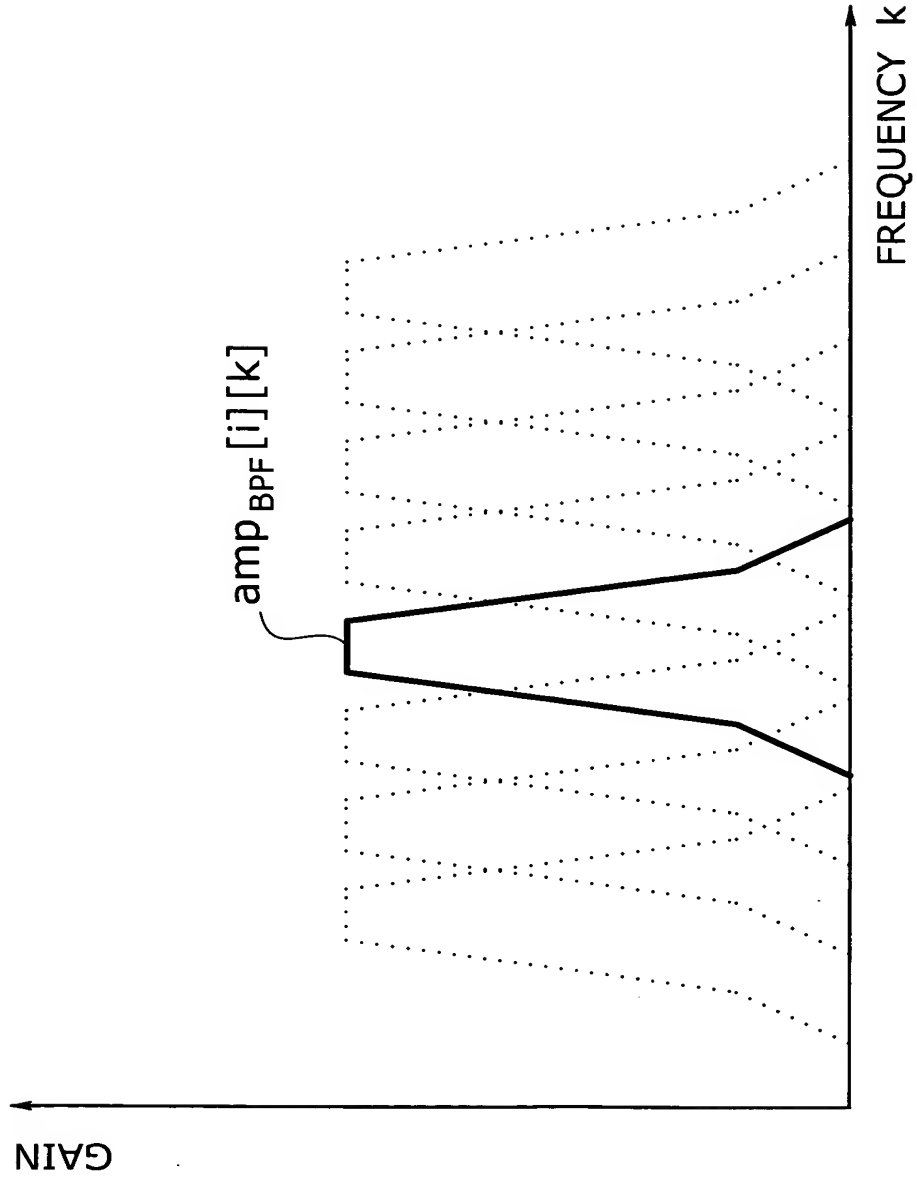


FIG. 5

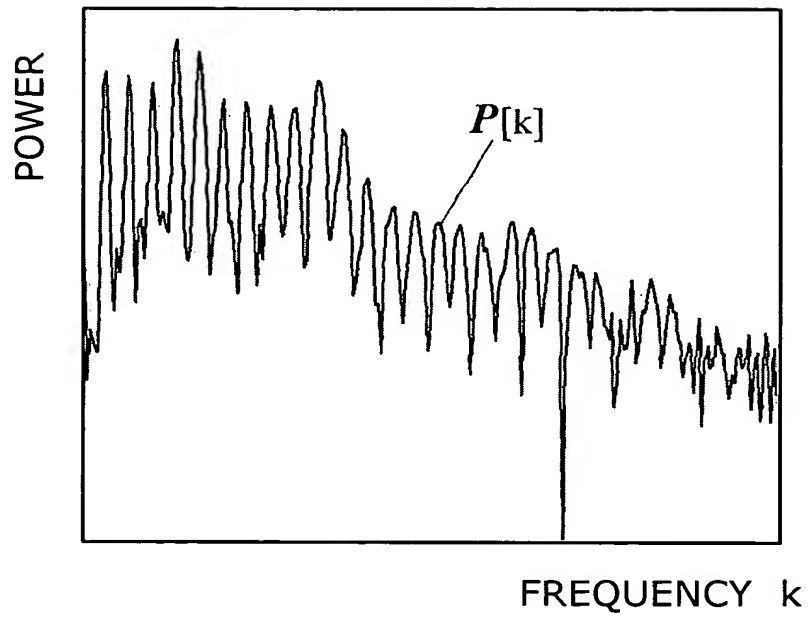


FIG. 6

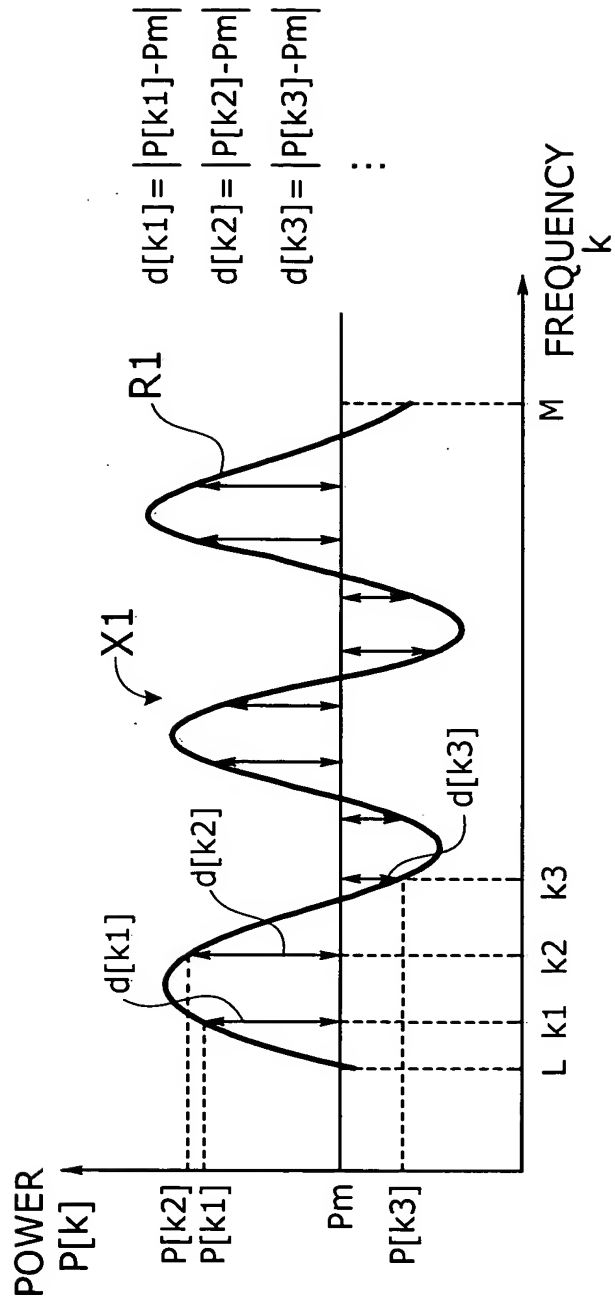


FIG. 7A

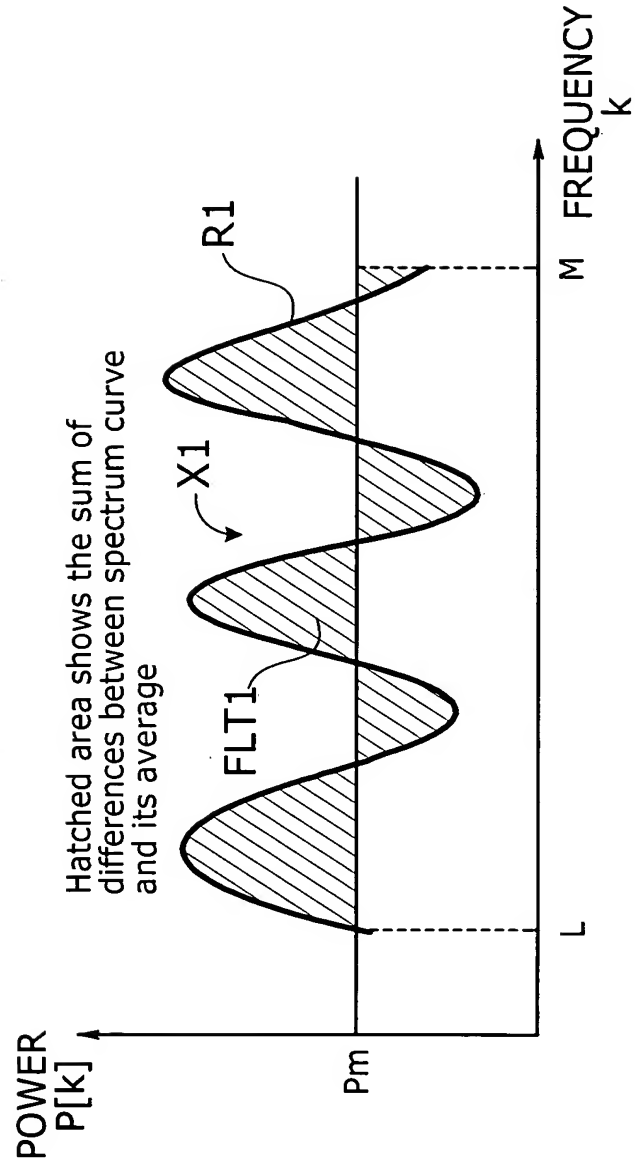


FIG. 7B

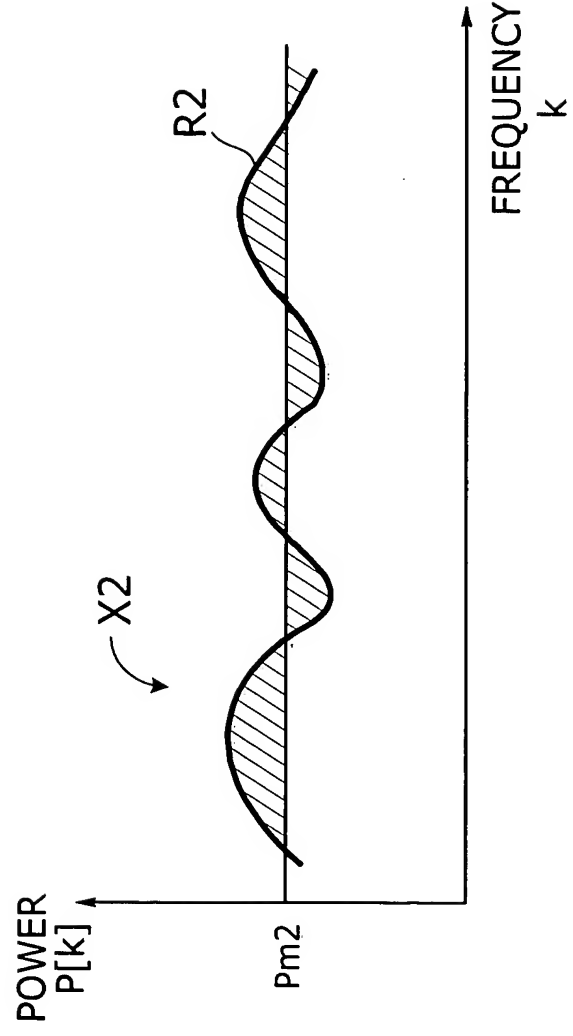


FIG. 8

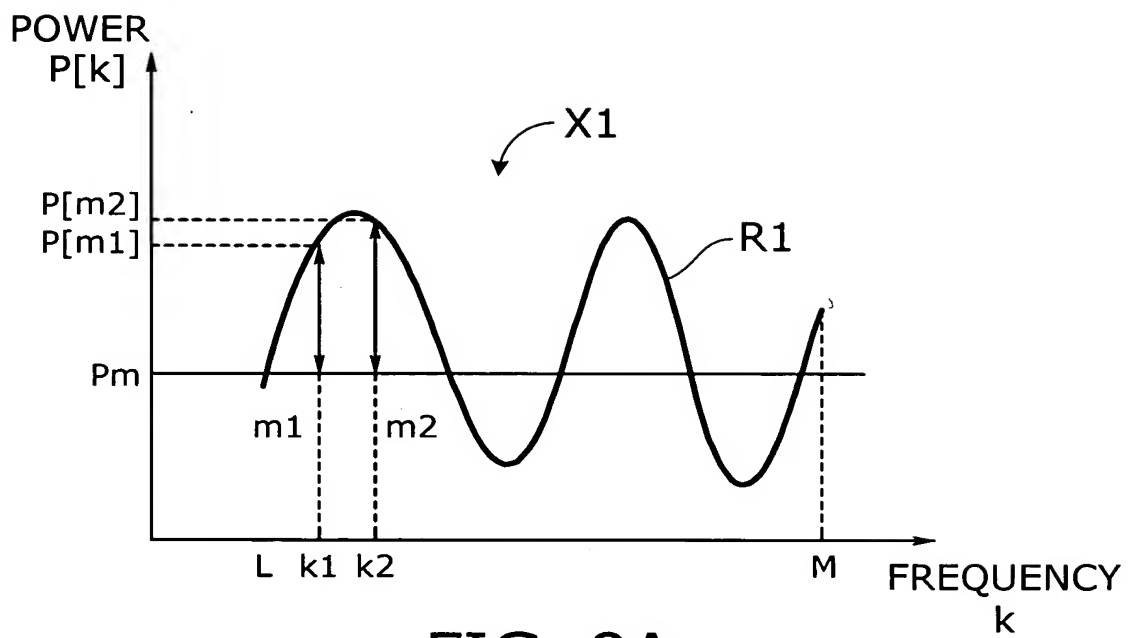


FIG. 9A

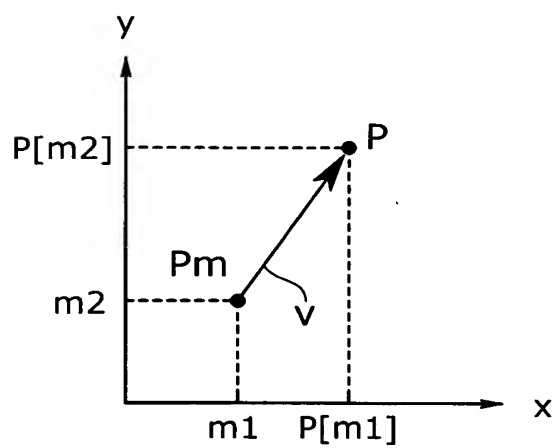


FIG. 9B

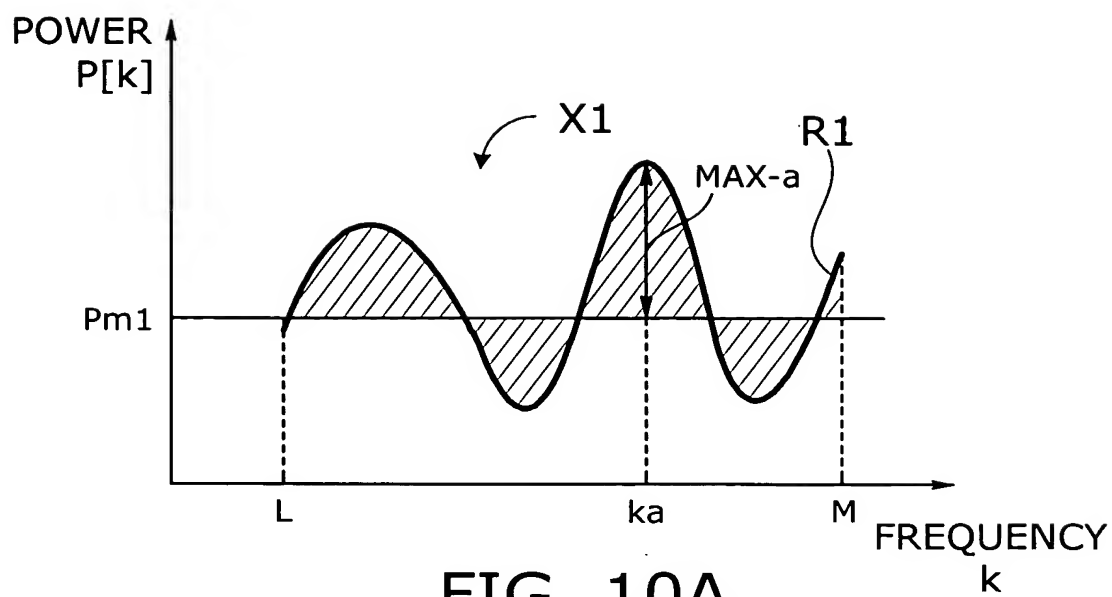


FIG. 10A

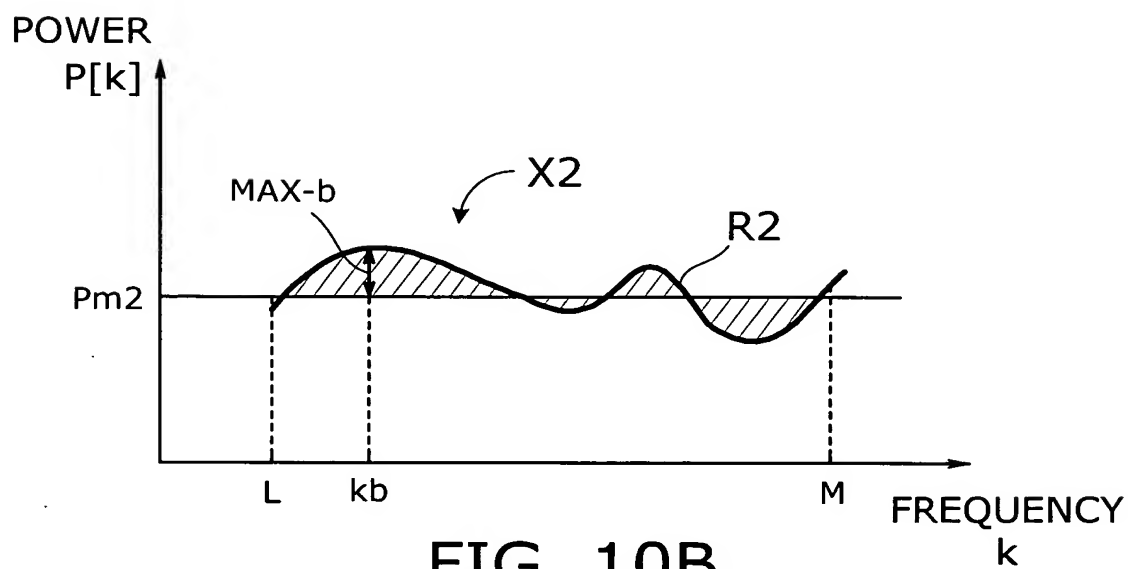


FIG. 10B

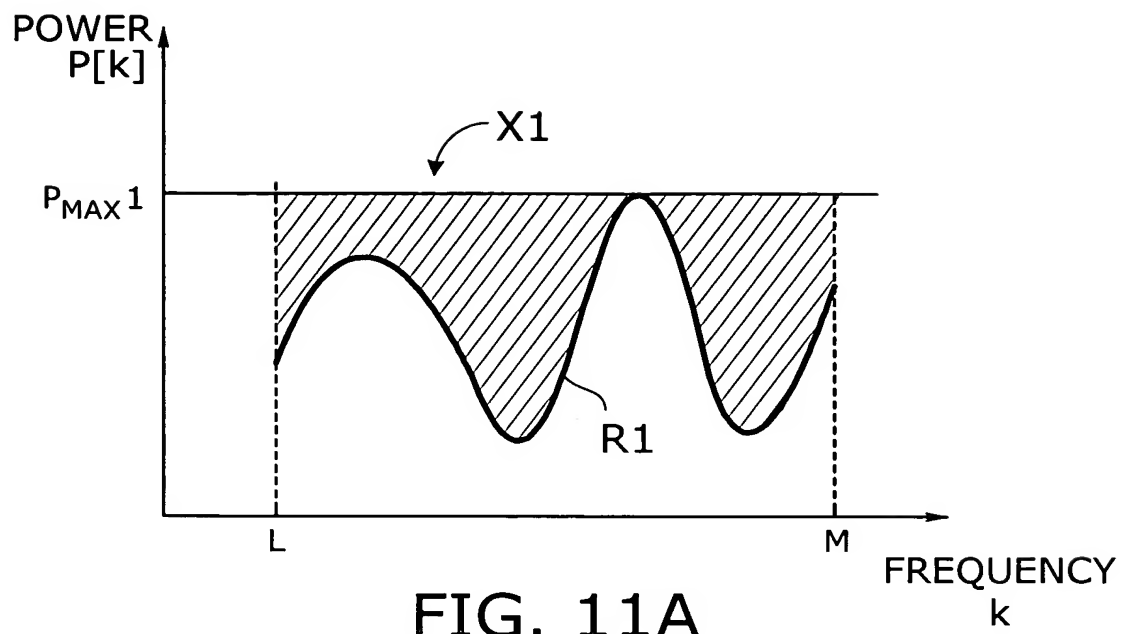


FIG. 11A

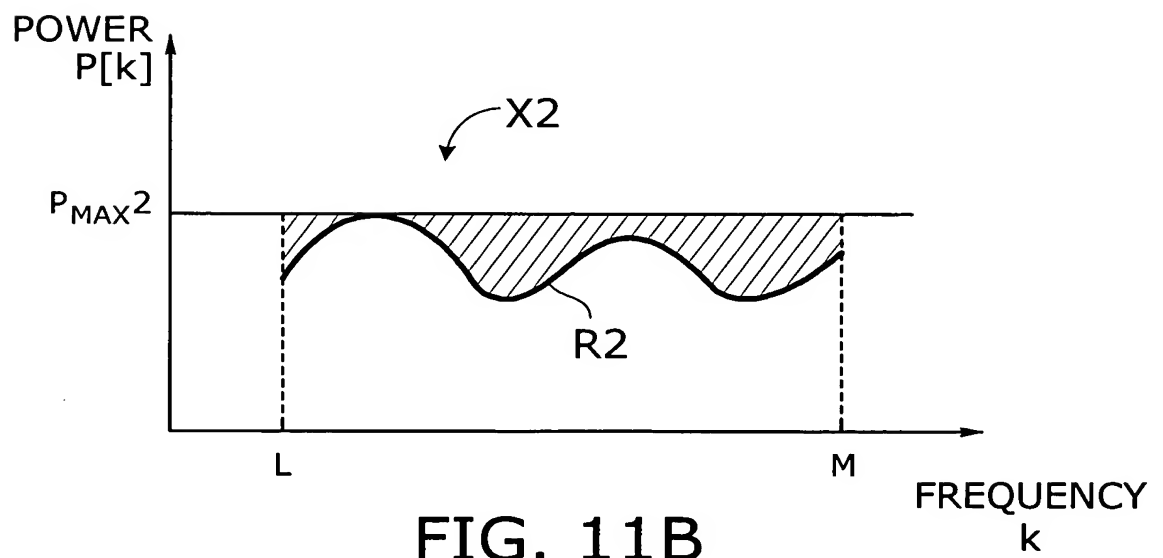


FIG. 11B

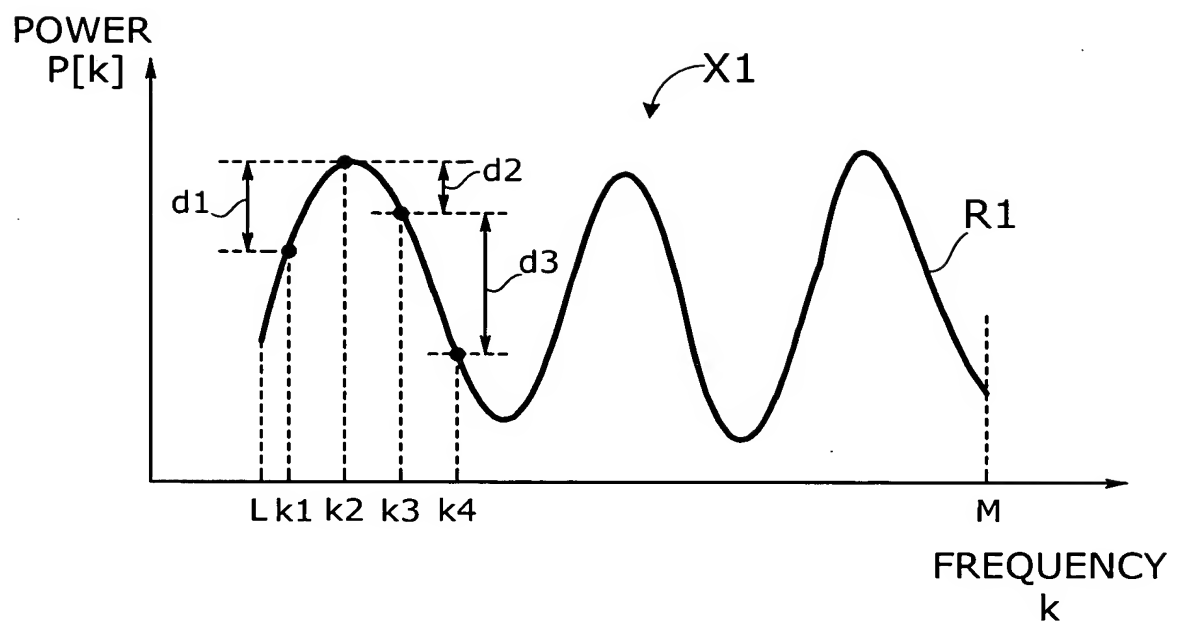


FIG. 12

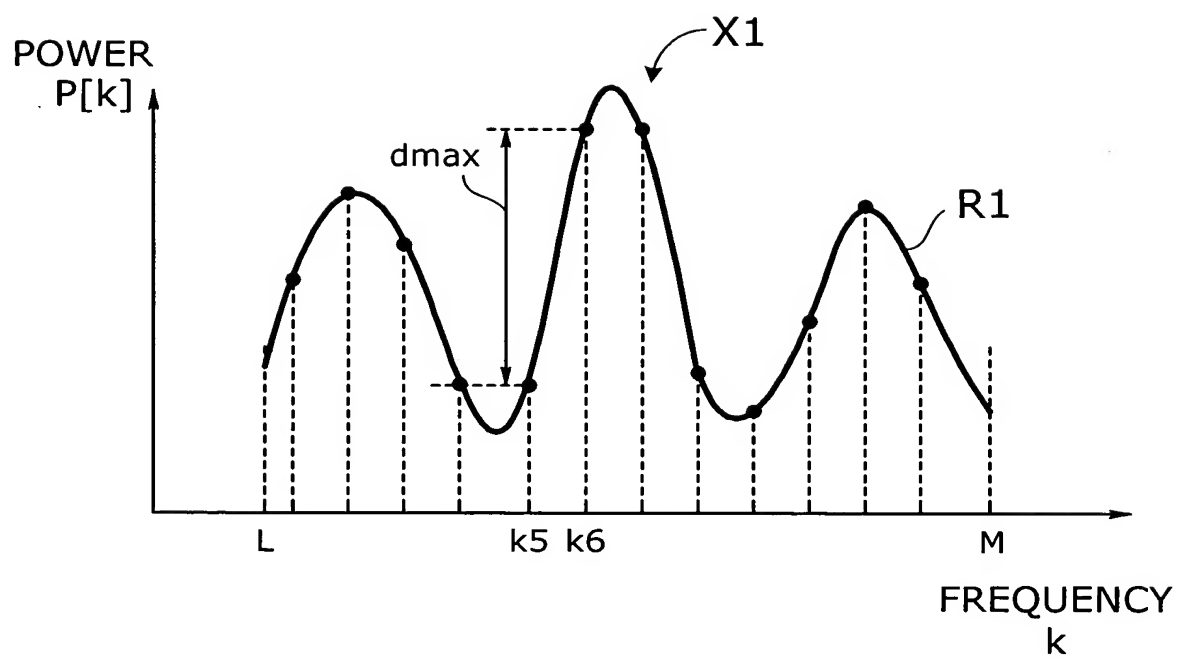


FIG. 13

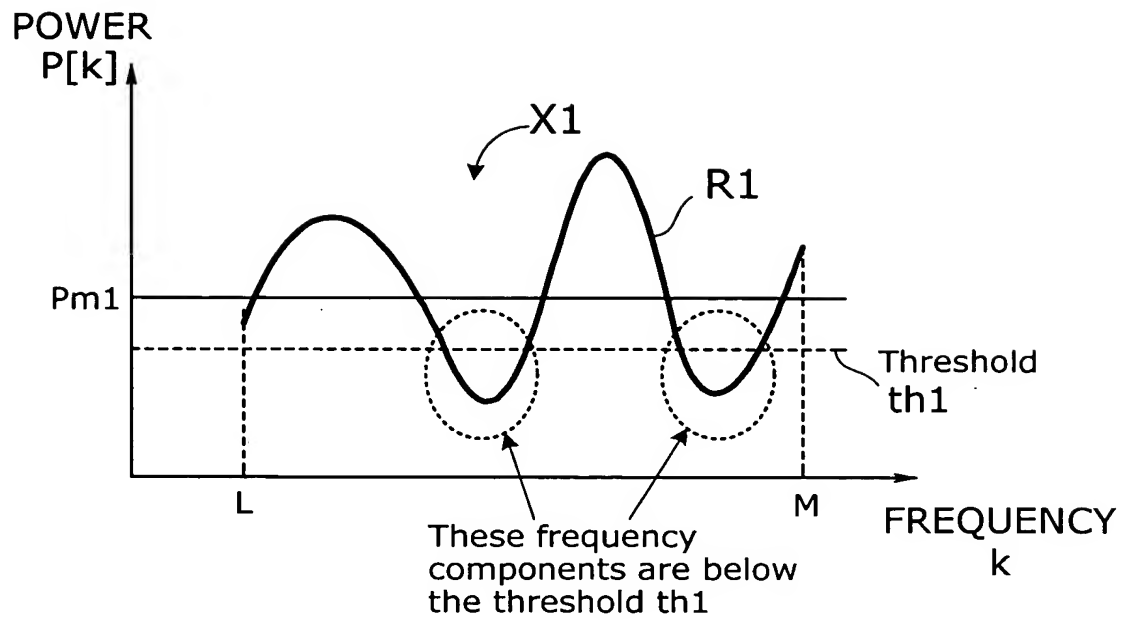


FIG. 14A

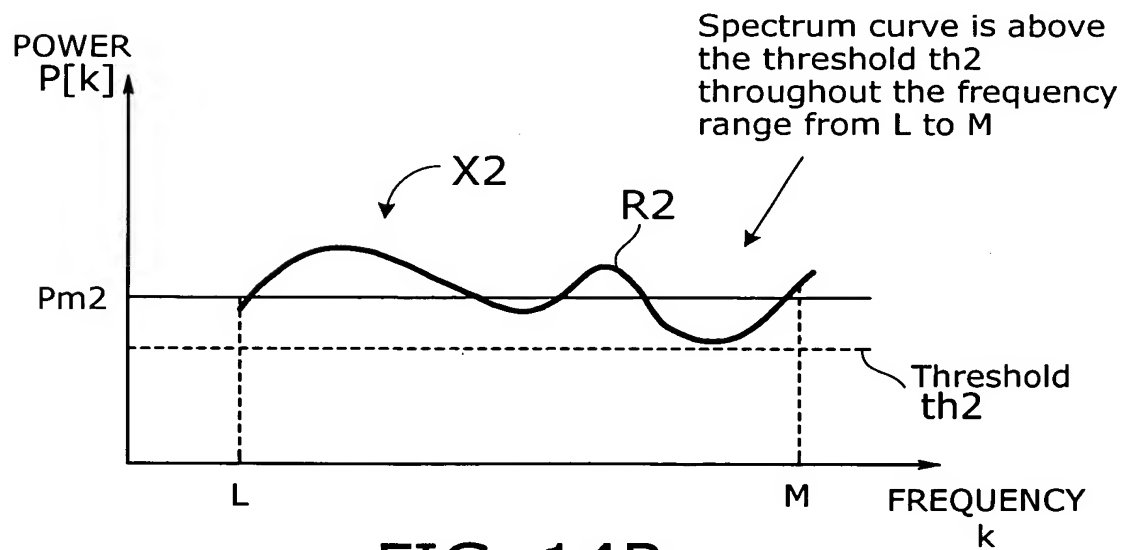


FIG. 14B

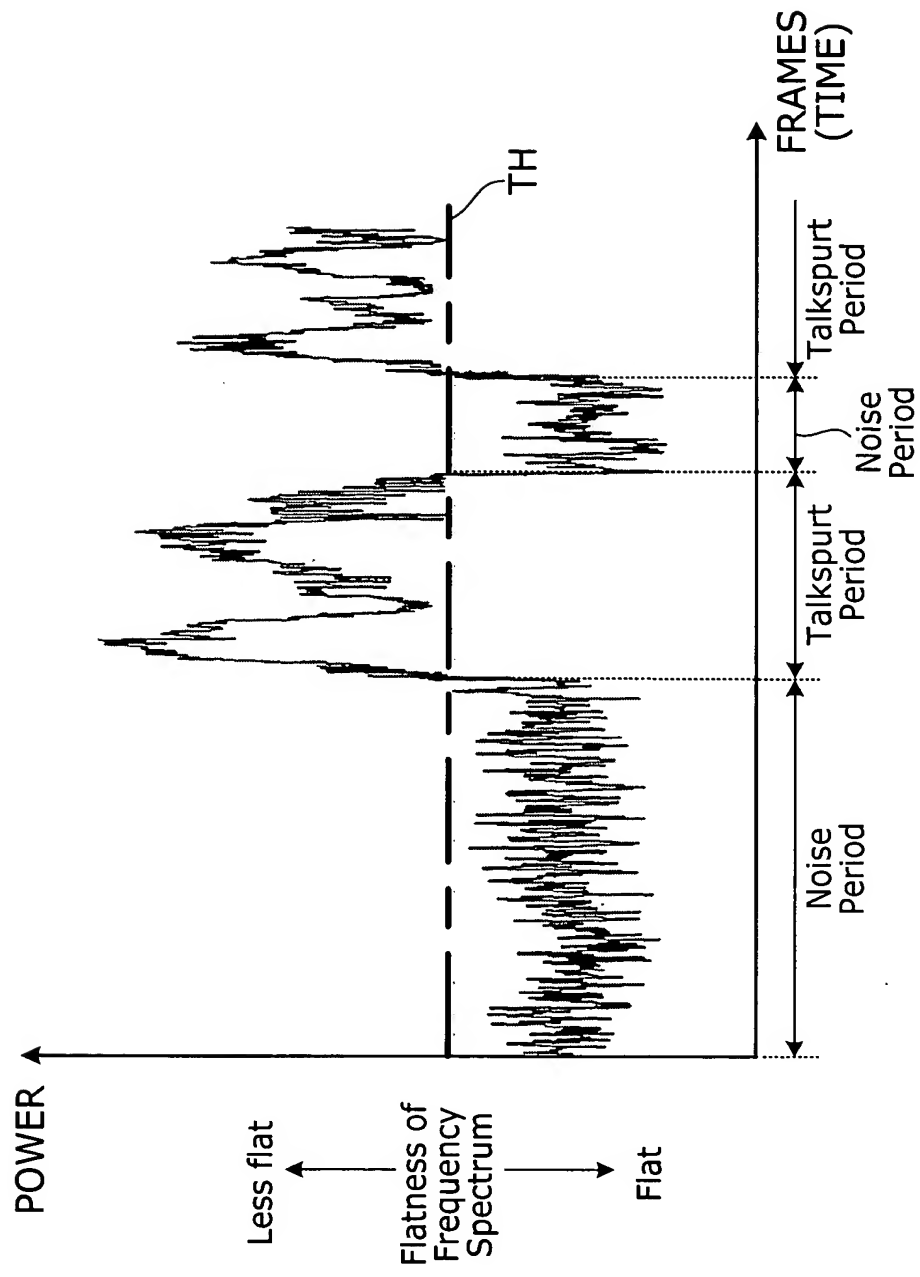


FIG. 15

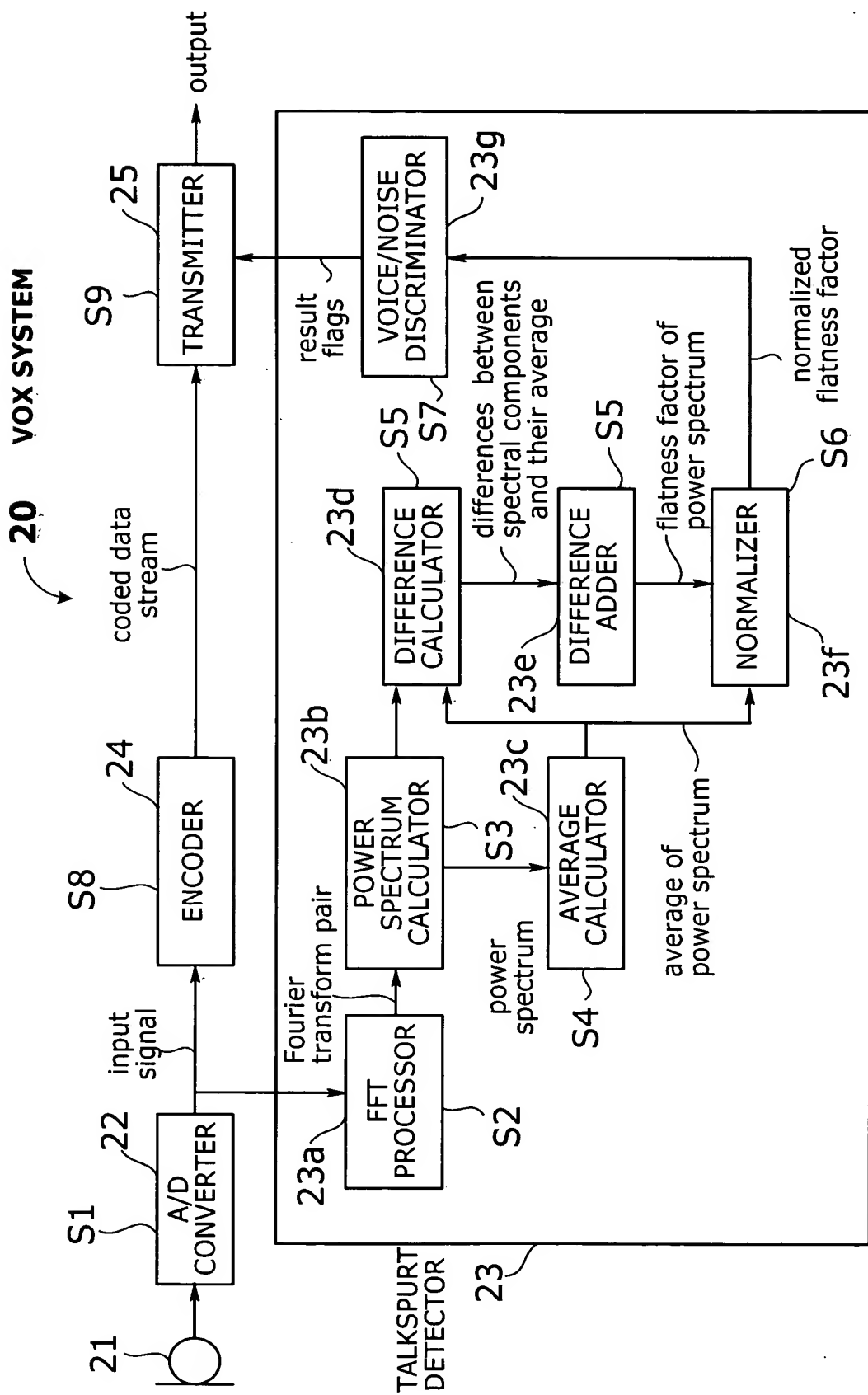


FIG.16

30 NOISE CANCELLER SYSTEM

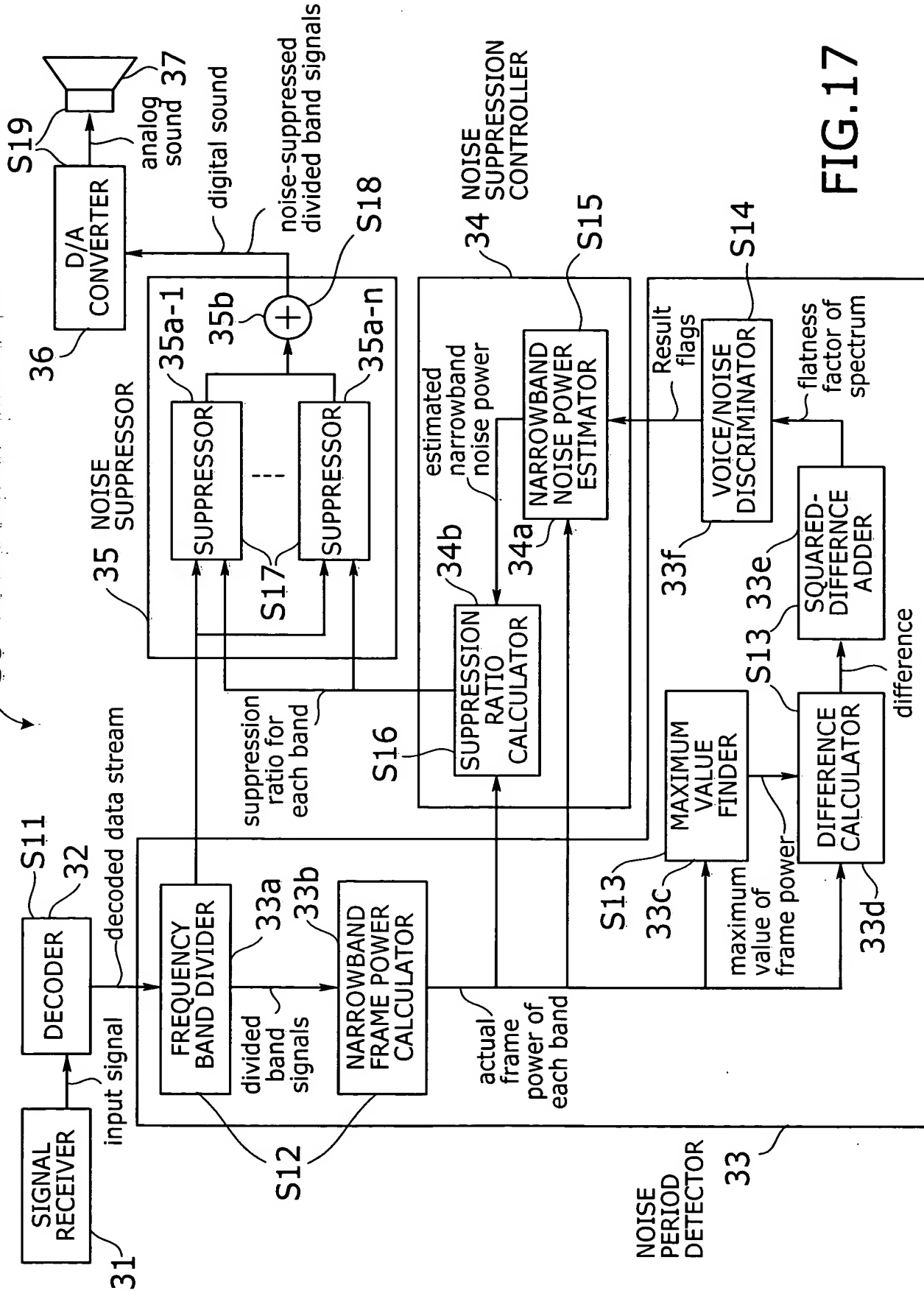


FIG.17

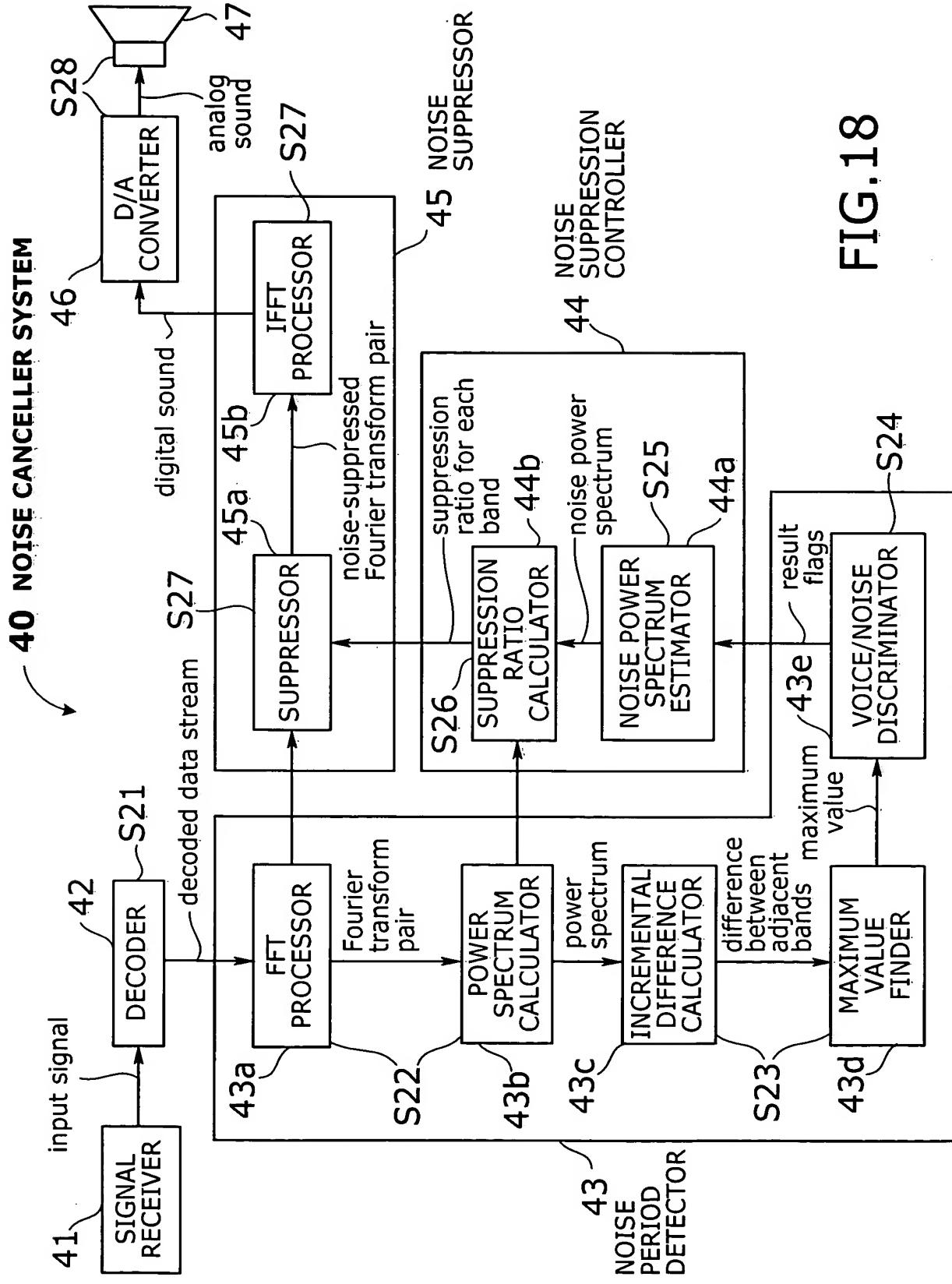


FIG.18

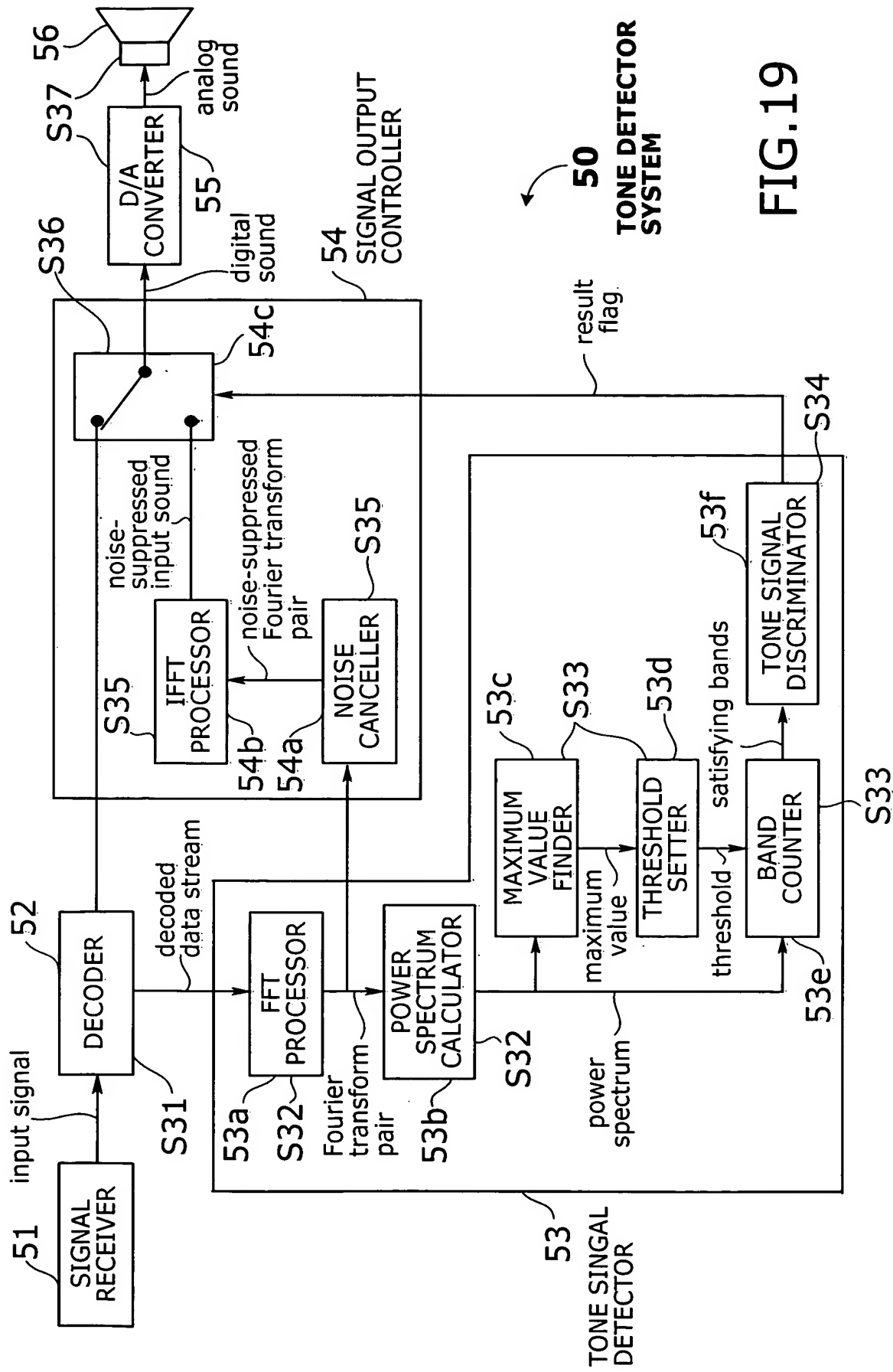


FIG.19

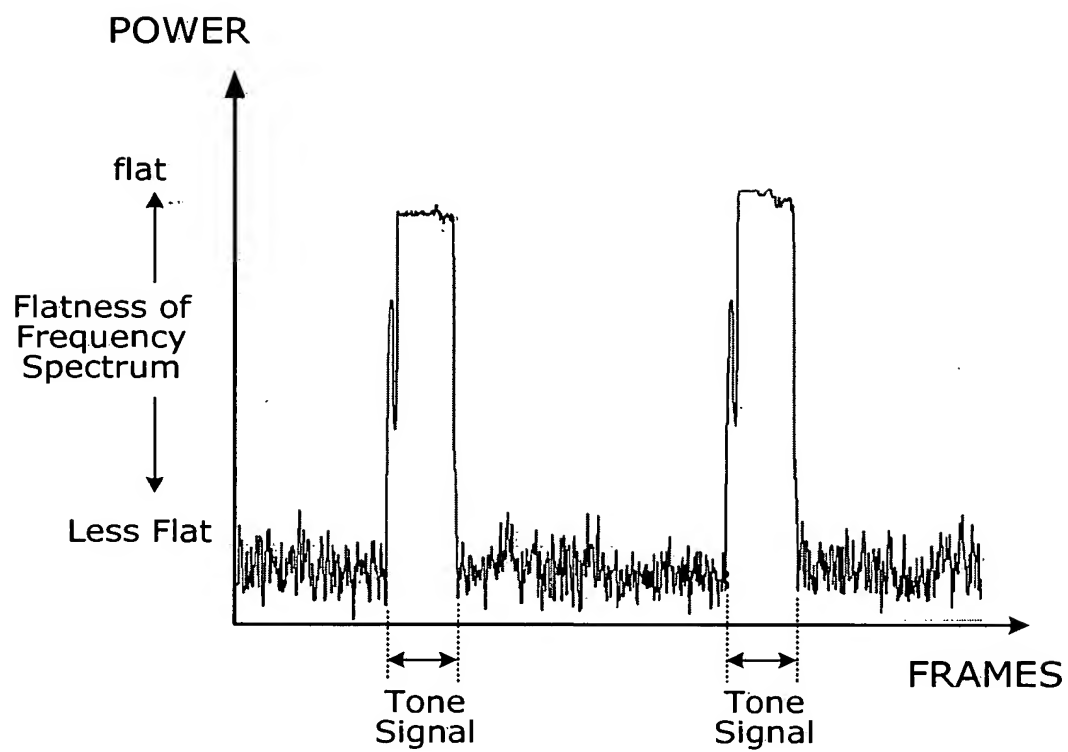
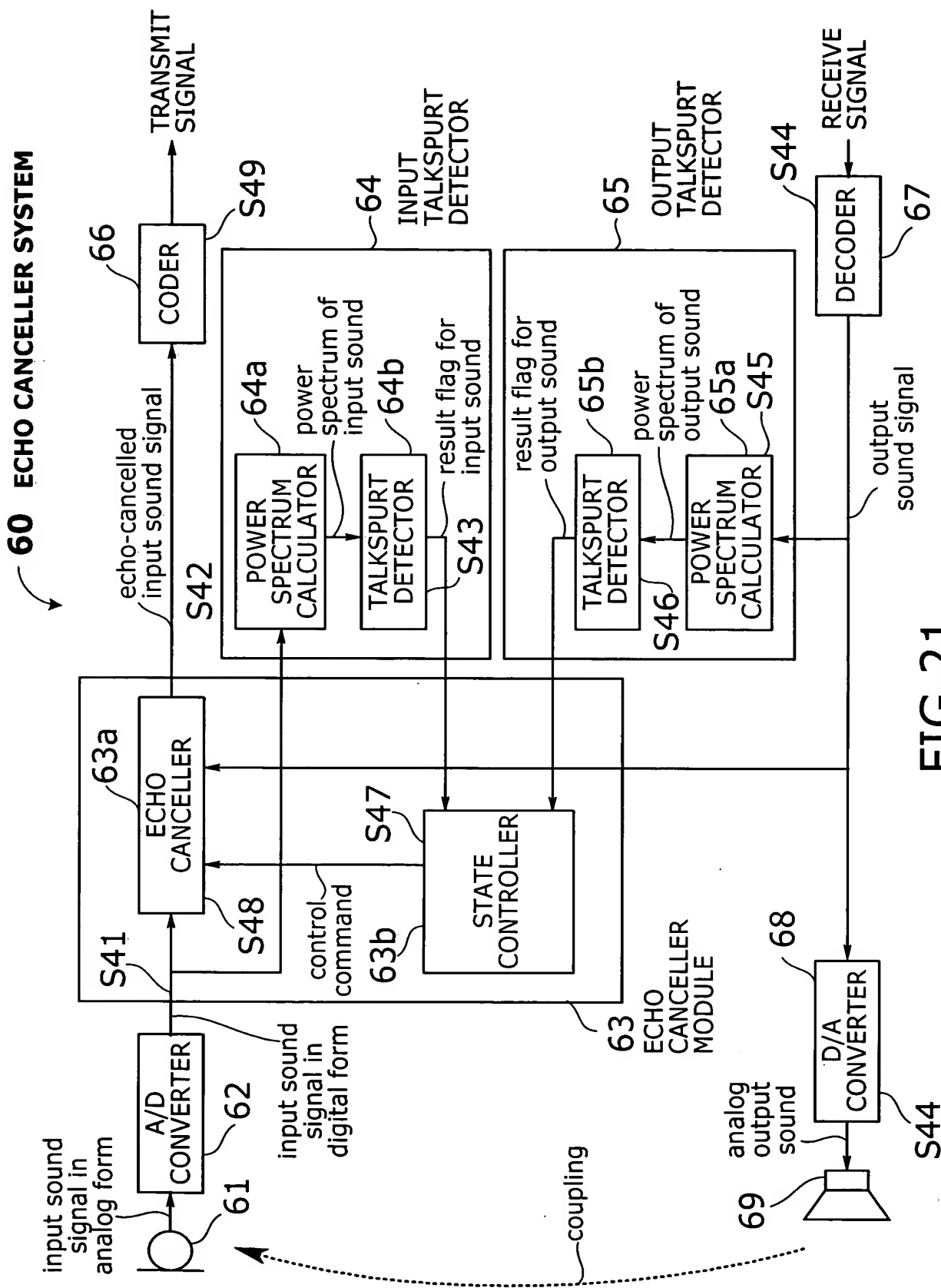


FIG. 20



T1 CONTROL SIGNAL TABLE



INPUT SOUND	OUTPUT SOUND	CONTROL COMMAND	
		SUBTRACT	TRAIN
PRESENT	PRESENT	ON	OFF
PRESENT	ABSENT	OFF	OFF
ABSENT	PRESENT	ON	ON
ABSENT	ABSENT	OFF	OFF

FIG.22